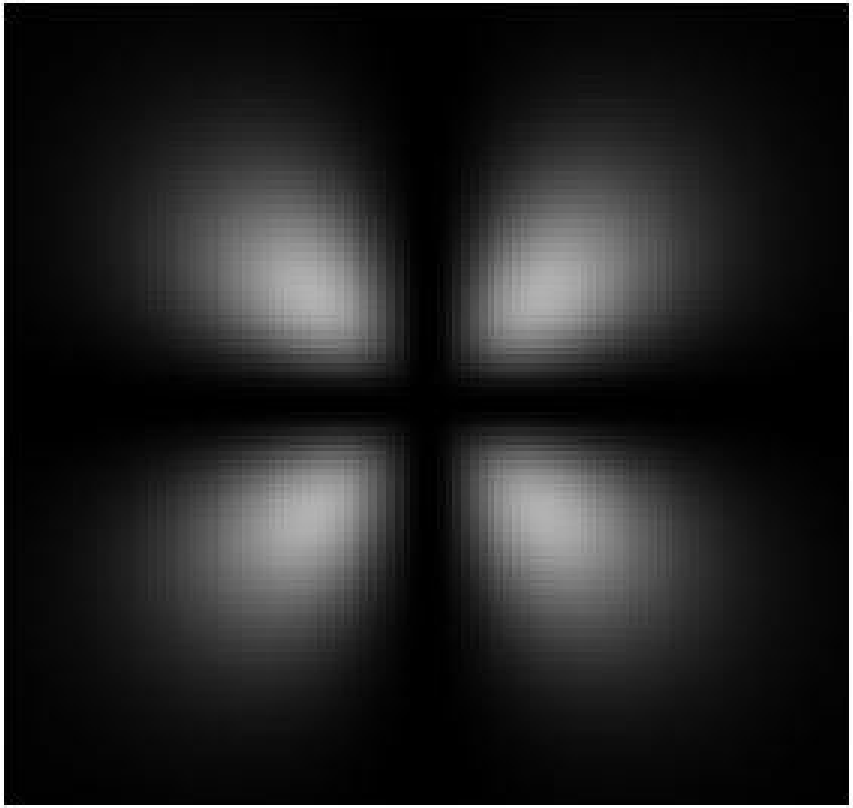

oss-sectional view of the electron probability density for the n = 3, *l* = 2 hydrog
bital. The total number of nodes is n – 1 = 2, the number of spherical nodes
n – *l* – 1 = 0, and the number of planar nodes is *l* = 2. The two planar nodes are
rpendicular to the plane of the screen. When *l* =2, the orbital is given the name
here we have a 3d orbital.